# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 07/27/2018 09:52 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 05/12/2018 04:21 PM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 80291 | Expiration Date: | 02/29/2020 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 125448 | 0 | 1.59 | 125513 | 1.67 |
| Blue | F | SSC | 125000 | 123300 | -2 | 2.10 | 124031 | 2.09 |
| Blue | E | FITC | 15760 | 15330 | -3 | 2.99 | 333 | 23.57 |
| Blue | D | PE | 25880 | 25347 | -3 | 2.11 | 553 | 17.18 |
| Blue | B | PerCP-Cy5-5 | 34075 | 34042 | -1 | 4.33 | 1038 | 22.69 |
| Blue | A | PE-Cy7 | 22776 | 22899 | 0 | 7.52 | 558 | 44.74 |
| Red | C | APC | 42488 | 41736 | -2 | 2.67 | 1578 | 13.55 |
| Red | A | APC-Cy7 | 24478 | 24059 | -2 | 2.86 | 823 | 12.78 |
| Violet | B | V450 | 6304 | 6135 | -3 | 4.30 | 340 | 18.64 |
| Violet | A | V500 | 26005 | 25283 | -3 | 3.84 | 592 | 14.04 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 20802 | 7.25 | 609 | 12 | N/A | N/A | Pass |
| Blue | F | SSC | 55961 | 1.52 | 576 | 21 | N/A | N/A | Pass |
| Blue | E | FITC | 58 | 77.66 | 563 | 7 | 0.0141 | 201 | Pass |
| Blue | D | PE | 115 | 58.95 | 557 | 8 | 0.1208 | 296 | Pass |
| Blue | B | PerCP-Cy5-5 | 197 | 57.42 | 657 | 10 | 0.0076 | 145 | Pass |
| Blue | A | PE-Cy7 | 108 | 112.15 | 710 | 13 | 0.0093 | 30 | Pass |
| Red | C | APC | 371 | 27.86 | 601 | 1 | 0.0187 | 61 | Pass |
| Red | A | APC-Cy7 | 201 | 28.78 | 572 | 1 | 0.0050 | 1248 | Pass |
| Violet | B | V450 | 53 | 87.37 | 496 | 7 | 0.0242 | 2266 | Pass |
| Violet | A | V500 | 88 | 49.42 | 513 | 7 | 0.0114 | 1153 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.57 | 47.98 - 71.98 | N/A | N/A | -32.11 | -31.53 | 0.95 |
| Blue | 20.35 | 16.27 - 24.41 | 1.25 | 0.99 - 1.49 | 0.00 | 0.00 | 1.39 |
| Red | 17.65 | 13.60 - 20.40 | N/A | N/A | 31.31 | 31.91 | 1.18 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.90

## Threshold

Threshold (FSC): 12985

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments